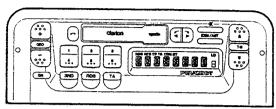
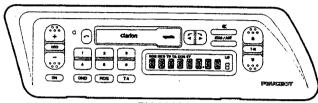
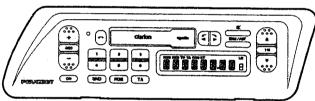
clarion Service Manual



PU-9970A



PU-9983A



PU-9983B SPECIFICATIONS

RADIO SECTION

Circuit system: Superheterodyne

Tuning system:

Electronic tuning

Receive range:

FM 87.5MHz to 108.0MHz

MW 531khz to 1,602kHz

LW 153kHz to 279kHz

Intermediate frequency:

FM 10.7MHz

MW/LW 450kHz

Quieting sensitivity:

FM Less than 13dB

(at 30dB S/N)

MW Less than 33dB

(at 20dB S/N)

LW Less than 40dB

(at 20dB S/N)

Separation:

FM More than 20dB

Auto tuning stop sensitivity:

FM DX:25±5dB

LO:50±10dB

MW DX:30±10dB

LO:50±10dB

LM DX:30±10dB

LO:50±10dB

TAPE SECTION

Reproduction system:

4 track,2 channel, stereo cassette deck

PEUGEOT

Automobile Genuine RDS/FM/MW/LW Radio

Cassette Stereo

PU-9970A Model

(Genuine No. 96 233 539 80)

Model PU-9983A

(Genuine No. 96 241 475 80)

Model PU-9983B

(Genuine No. 96 241 476 80)

Tape speed: 4.76cm/sec.

Wow and flutter: Less than 0.25% (W.R.M.S)

Separation:

More than 35dB

Crosstalk:

More than 40dB

S/N ratio: FF/REW time:

More than 45dB Less than 180sec.(C-60)

GENERAL

Load impedance: 40

Power output:

More than 5W×4

(at max.output)

Power supply voltage:

DC 14.0V(10.8V to 15.6V)

Negative ground

Current consumption:

Less than 10A(at max.output)

Dimensions:

Width 178mm

Height 50mm

Depth 146mm

Weight:

1.2kg

 For improvement purposes, specifications and design are subject to change without prior notice.

M COMPONENTS

PU-9970A-A/PU-9983A-A/PU-9983B-A

Main unit

CAUTIONS

During repair or inspection, observe the followings.

1. Use specified parts.

The system uses parts with special safety characteristics against flame and voltage. Use only parts with equivalent characteristics when replacing them.

2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to P.W.B. etc. is involved. The wiring connection and routing to the P.W.B. are specially devised using clamps to keep away from heated and high-voltage parts. So, make sure to replace them back in their original positions after repair or inspection.

3. Check for safety after repair.

Check that the screws, parts, and wires are put back securely in their original position after repair. And make

sure for safety reasons there is no possibility of secondary ploblems around the repaired spots.

4. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, condensers, diodes, transistors, etc.). The negative pole of tantalum condensers is highly susceptible to heat, so use special care when replacing them, and check operation afterward.

5. Cautions in handling flexible P.W.B.

Before working with a soldering iron,make sure that the iron tip temperature is around 270°C . Take care not to apply the iron tip repeatedly(more than 3 times)to the same patterns. Also take care not to apply the tip with force.

COMPUTER ANTI-THEFT SYSTEM

This unit has a built-in Computer Anti-Theft System(CATS) whitch makes the radio inoperative if power to the unit is interrupted for any reason whatsoever(including disconnection and reconnection of the car battery). The radio will remain inoperative unless you enter the correct cats number.

RELEASE CATS

- 1. Press the power button to turn the power on.
- 2. "CODE IN"appears on the display.
- 3. Enter the code number using the preset buttons.
- If the entered code number is correct, the radio turns on. A radio frequency appears on the display.

- If the entered code number is incorrect, the numbers on the display and nothing happens.
- To enter the code number again, press and hold down the band button for at least 3 seconds. "CODE IN" reappears on the display. Enter the correct code number.
- 7. If you enter an incorrect code number three times in succession, the system will not accept another code input for one hour, even if you press the band button for more than 3 seconds. If at the end of that hour you enter an incorrect code number again, you will have to wait another hour to try once more and so on.

ADJUSTMENTS

FM SECTION

Item	Procedure	Measuring instrument
S-meter	1. Connect the milli volt-meter to TP101.	SG
	2. Input the 98.1MHz/30dBu(no MOD) degree SG signal.	Milli-volt meter
	3. Adjust VR101 so that the voltage of TP101 is in the range 2.4 \pm 0.1V.	
SD	1. Input the 98.1MHz/28dBu(400Hz MOD 30%) degree SG signal.	SG
	2. Connect the ground to TP103.	osc
	3. Adjust VR102 so that the voltage of TP102 is in the range Lo to Hi.	

EXPLANATION OF IC

I PD μ	7006AGF-651-3E	39	052-1303-01 Tuner controller for RDS
80-pi	rd From in plastic QFP al Discription		
Pin No.	Symbol	1/0	Function
	STIND	I	Pin for lighting "ST" LCD while the input level is "L" during FM station reception.

Pin No.	Symbol	VO	Function
2	RDS IND	Į.	Pin for input of RDS station signal from the RDS decody 1 C.
3	SK IND	I	Pin for input of SK (traffic information station) signal fina the RDS decoder IC.
4	DK IND	1	Pin for input of DK (announcement) signal from the RDS (cc.)cler

Pin No.	Symbol	1/0	Function
5	REMOCON IN	I	Pin for input from the 1-wire, voltage conversion type remot controller.
6	VSM	I	Pin used for signal (field strength) comparison during trackin of same programe.
7	FM IF	ı	Pin for input of FM IF frequency counter signal.
8	AM IF	I	Pin for input of MW/LW IF frequency counter signal.
9	RDS START	I	Pin for input of start signal from the RDS decoxier IC.
10	RDS DATA	1	Pin for input of RDS data from the RDS decoder IC synchronize with RDS CLK.
11	RDS CLK	I	Pin for input of clock from the RDS decoder IC.
12	RDS RES	υ	Pin used as the reset flag of synchronizing software.
13	RDS MUTE	0	MW/LW"L"output terminal which outputs "L" for 1 sec who FM power is switched ON.
14	Voo	-	Power pin.
15	AM OSC	ī	Pin for input of MW/LW band VCO (receiving frequenc +10.71MHz).
16	FM OSC	I	Pin for input of FM band VCO (receiving frequency + 10.7MHz.
17	GND	-	Earth terminal.
18	EO		
19 20	EO AM EO FM	0	Pins for output of PLL error signals.
21	LW/MW FM	0	Pin for output of "H"during LW reception.
22	REM	0	Pin for system power control.
23	VOL CE	0	Pin for electronic volume control.
24	MUTE	0	Pin for system muting control (interlocked with electroni volume).
25	AM+B	0	Pin for MW/LW band power control.
26	FM+B	0	Pin for FM hand power control.
27	LPF CONT	0	Pin for PLL low-pass filter control,
28	BEEP	0	Pin for output of pulse for generating beep sound.
29	B/U DET	I	Pin for detecting that the system back-up power is dropped.
30	VDD	-	Power pin.
31	CE	1	Pin for input of Chip Enable signal.
32	MOTOR	O	Pin for cassette deck power control.
33	GND		Earth pin.
34 35	X OUT X IN	-	Pins for connection of X'tal oscillator.
36	NC	-	Not in use.
37	ACC IN	ı	Pin for detecting the accessory power input from the car.
38	VOLL	ı	Pin for input of electronic volume signals (phase comparison
39	VOL R		method).
40	BAND/ILL	I	Pins for input of BAND key signal.
1 ~44	KO3~KO0	0	Pin for output of key scan signals.
5~52	KI7 ~ KI0	I	Pin for input of key scan signals (pins 45 to 52 are not in use).
53	LCD KEY REQ	1	Pin for input of Key On signal from the LCD driver.
55	PHONE INT NC	I	Telephone signal port, MUTE is output while this Port is "H". Not in use.
56	SI	1	
57 58	SO SCK	0	Serial data line to/from the LCD driver and electronic volume.
59	REM OUT	0	STOP request signal for eternally connected components.
60	REM IN	J	Operation signal from externally connected components.
61	GND	-	Earth pin.
62	LCD CS	0	Pin for output of LCD driver Chip Select signal.
63	NC	-	Not in use.
64	Vob	-	Power pin.
65	LCD OE	0	Pin for LCD driver control.
66	ILLUMI	0	Two cycles of "H" ↔ "L" are repeated when the BAND key is held
		1	for 2 sec. The initial status is "L". Because of the presence of the

		T	
Pin No.	Symboi	NO	Function
67 68	NC	-	Not in use.
69	R/T	0	Pin for output for switching between the radio mode (L) and tape need (H).
70	DOLBY ON/OFF	0	In Tape mode, alternates "H" and "L" every time the switch is pressed.
71	APC ON/OFF	0	In tape mode with APC ON, outputs "H"during FW/REW.
72	MIL ON/OFF	0	In tape mode, alternates "H" and "L" every time the switch is pressed.
73	FF/REW	1	In case the radio monitoring is used, radio broadcasting is monitored while this port is "L" with the cassette pack in.
74	PACK IN	I	L: Cassette pack present (tape mode). H: Cassette pack absent (radio mode).
75	FOW/REV	I	Cassette tape transport direction. (In tape mode, outputs MUTE when the port status changes.)
76	FM SD	ı	Pin for station detection during tracking of same programme while auto tuning (Seek, AS, PS) is activated.
77	DX/LO	0	Pin used during Seek and AS (usually "L").
78	RDS SD	0	Pin used during Seek, As and auto tracking in FM mode (usually "L").
79	IF REQ	0	Outputs. "L" when IF count is required during Seek, AS and PS (usually "H").
80	IF MUTE	0	Outputs signal during auto tracking operation.

Key Matrix Table

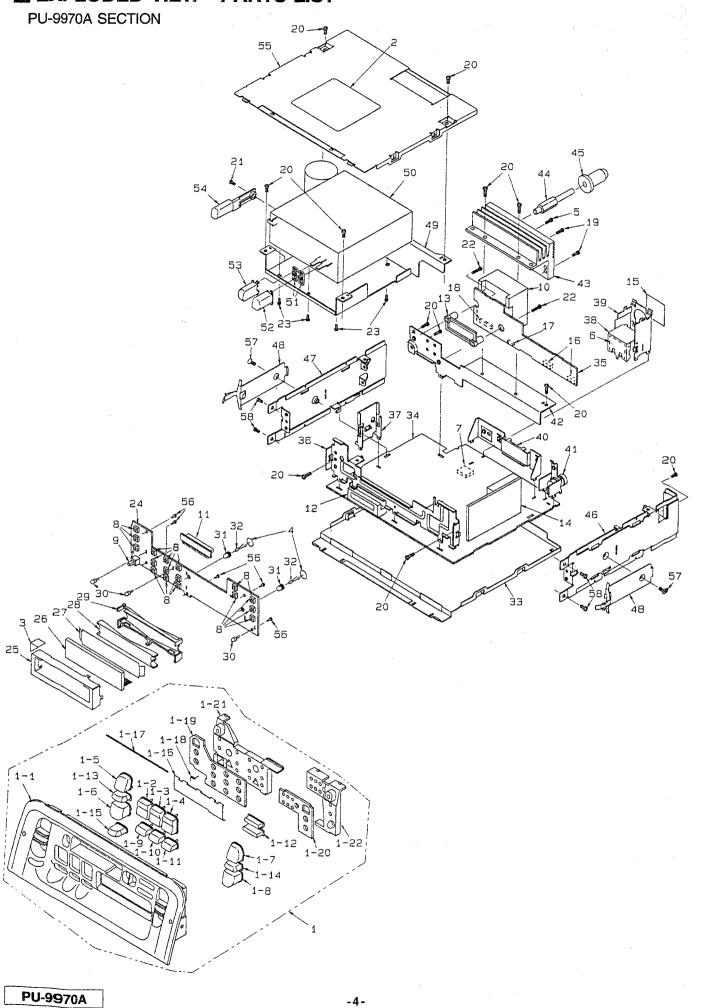
KEY IN	KI 0 (52 pin)	KI (51 pin)	KJ 2 (50 pin)	KI 3 (49 pin)
KO 0 (44 pin)	D SWO	D SW1	D SW2	D SW3
KO I (43 pin)	BAND AM	RADIO MONITOR	E VOL FADER	TMODE
KO 2 (42 pin)	LOUD KEY	FF/REW		

Diode SW

*In the table below, "O" means that diode SW is OFF (OPEN) and "I" means that diode SW is ON (SHORT).

is ON (SHOR	T).											
Switch name		Function										
D SW0	Select the	initial sett	ing of AS	(Auto Store).								
DSWI	l	D SWO	D SW1	Function								
	1	0	0	Both FM 1 and								
] ,	l	0	ī	FM 2 bands								
		1	0	FM 2 band only]							
		1		7 37 2 Sund Stay								
D SW2	Select the availabilities of the APC, Dolby and MTL function.											
D SW3	D SW2	D SW3	Function									
	0	O	APC	OFF. DOLBY: OFF.	MTL: OF.							
	0	TO CHEST: DOLDS; ON: MID; ON:										
	1	0	APC	OFF. DOLBY: ON.	MTL: 0							
	1 1 APC: ON. DOLBY: ON. MTL: ON											
BAND AM	Select the	Select the availability of the AM band,										
		0 : AM ba	nd unavail	able.								
		1: AM ba	nd availab	ie.								
RADIO	Select the	availabilit	y of the rad	tio monitoring function.	,							
MONITOR	(reproduc	ing radio c	luring FF/	REW)								
			-	unavailable.								
				available.								
E VOL				der function with the electr	ic volume.							
FADER		0 : Fader u										
		I : Fader n		· · · · · · · · · · · · · · · · · · ·								
T MODE				ning mode function (auto a	nd manual).							
) : Tuning 										
LOUD KEY		l : Tuning										
LOUD KEY				idness control function.								
		: Loudne										
FF/REW	Sclect the	1 : Loudne										
KL"): <<		KEW Ivailable								
				ivanadic. ivailable.								
L		. [22]	الش	rana/ic.								

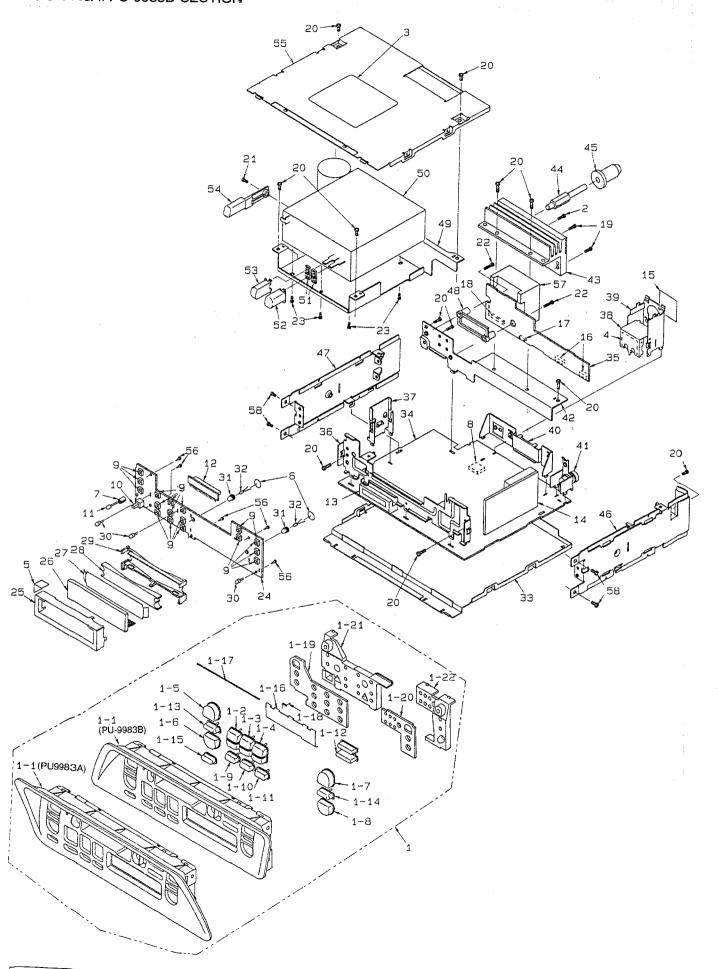
■ EXPLODED VIEW · PARTS LIST



NO	PART NO.	DESCRIPTION	QTY		DADTNO	DECODIDATION	-T
NO.	<u> </u>			NO.	PART NO.	DESCRIPTION	QTY
1	940-7726-00	ESCUTCHEON ASS'Y	1	19	714-3010-81	MACHINE SCREW	2
1-1	370-5546-00	ESCUTCHEON (1/4)	1 1	20	731-3006-80	TAP TIGHT	12
1-2	382-3952-00	BUTTON (1/4) BUTTON (2/5)		21	716-1580-00	SCREW	1 2
1-3	·	, ,	1 1	22	714-3025-11	MACHINE SCREW	2
1-4	382-3954-00	BUTTON (3/6)	1	23	714-3004-81	MACHINE SCREW	4
1-5	382-3955-00	BUTTON (+)	1	24	039-0560-00	SWITCH PWB	1
1-6	382-3956-00	BUTTON (-)	1	25	331-0416-0L	LCD COVER	1
1-7	382-3957-00	BUTTON (UP)	1	26	379-1041-41	INDICATOR	1
1-8	382-3958-00	BUTTON (DOWN)	1	27	347-3953-0L	FILM	1
1-9	382-3959-00	BUTTON (BND)	1	28	335-4707-02	ILLUMI PLATE	1
1-10	382-3960-00	BUTTON (RDS)	1 1	29	335-4706-0L	LCD HOLDER	_
1-11	382-3961-00	BUTTON (TA)	1	30	017-0420-11	PILOT LAMP (14V 40mA)	3
1-12	382-3962-00	BUTTON (MUTE/EXM)	1	31	345-3814-75	LAMP CAP	2
1-13	382-3963-00	BUTTON (GEO)	1	32	017-0414-00	PILOT LAMP (8V 70mA)	2
1-14	382-3964-00	BUTTON (T-M)	1 1	33	311-1652-00	LOWER CASE	1
1-15	382-3965-00	BUTTON (ON)	≥ 1	34	039-0181-01	MAIN PWB	1
1-16	320-0485-84	DUSTPROOF COVER	1	35	039-0561-00	CONNECTOR PWB	1
1-17	341-1278-01	SHAFT	1	36	309-0648-10	FRONT PLATE	11
1-18	750-2530-04	SPRING	1	37	313-1577-0L	HEAT SINK	1
1-19	345-7675-00	CUSHON RUBBER (L)	1 1	38	331-0413-0L	SHIELD PLATE	1
1-20	345-7676-00	CUSHON RUBBER (R)	1	39	331-0412-0L	CONNECTOR HOLDER	1
1-21	335-4951-00	ILLUMI PLATE (L)	1	40	331-1680-00	IC HOLDER	1
1-22	335-4952-00	ILLUMI PLATE (R)	1	41	092-0668-00	ANT HOLDER	11
2	286-8497-00	SETPLATE	1 1	42	331-1679-00	BACK PLATE	1
3	347-2022-00	SHADE	1, 1	43	313-1628-00	HEAT SINK	11
4	353-0359-00	SHADE	2	44	716-1728-00	REAR BOLT	1
5	714-3012-81	MACHINE SCREW	1	45	345-4847-01	STOPPER	1
6	347-4001-0L	INSULATOR	1	46	331-1677-00	SIDE COVER (R)	. 1
7	345-7495-0L	INSULATOR	1	47	331-1678-00	SIDE COVER (L)	1
8	013-3978-01	SWITCH	17	48	750-3182-00	SIDE SPRING	2
9	013-3849-00	SWITCH (ON)	1	49	331-0410-10	MECH.BRACKET	1
10	074-0930-12	OUTLET SOCKET (ISO)	1	50	930-0722-86	TAPE MECHANISM	1
11	076-0481-00	PLUG	1	51	335-4358-00	BUTTON SPACER	2
12	074-1058-00	OUTLET SOCKET	1	52	382-3950-00	BUTTON (FF)	1
13	335-4708-0L	SPACER	1	53	382-3951-00	BUTTON (REW)	1
14	880-2076A	TUNER PACK	1	54	382-3949-00	BUTTON (EJECT)	1
15	347-3977-0L	LABEL	1	55	310-1582-00	UPPER CASE	1
16	076-0390-04	PLUG (4P SP)	2	56	716-0778-00	SCREW	5
17	076-0324-04	PLUG (4P B/U)	1	57	731-3008-40	TAP TIGHT	2
18	076-0482-0L	PLUG	1	58	714-3005-81	MACHINE SCREW	4

EXPLODED VIEW · PARTS LIST

PU-9983A/PU-9983B SECTION



				110	DARTHO	DECORIOTION.	T
NO.	PART NO.	DESCRIPTION	QTY	NO.	PART NO.	DESCRIPTION	QTY
1	940-7728-00	ESCUTCHEON ASS'Y (PU-9983A)	1	18	076-0482-0L	PLUG	1
	940-7729-00	ESCUTCHEON ASS'Y (PU-9983B)	1	19	714-3010-81	MACHINE SCREW	2
1-1	370-5551-00	ESCUTCHEON (PU-9983A)	1	20	731-3006-80	TAP TIGHT	12
	370-5552-00	ESCUTCHEON (PU-9983B)	1	21	716-1580-00	SCREW	1 1
1-2	382-4041-00	BUTTON (1/4)	1	22	714-3025-11	MACHINE SCREW	2
1-3	382-4042-00	BUTTON (2/5)	1	23	714-3004-81	MACHINE SCREW	4
1-4	382-4043-00	BUTTON (3/6)	1	24	039-0560-00	SWITCH PWB	1
1-5	382-3970-00	BUTTON (+)	1	25	331-0416-0L	LCD COVER	1
1-6	382-3971-00	BUTTON (-)	1	26	379-1041-41	INDICATOR	1
1-7	382-3972-00	BUTTON (UP)	1	27	347-3953-0L	FILM	1
1-8	382-3973-00	BUTTON (DOWN)	1	28	335-4707-02	ILLUMI PLATE	1
1-9	382-3974-00	BUTTON (BND)	1	29	335-4706-0L	LCD HOLDER	1
1-10	382-3975-00	BUTTON (RDS)	1	30	017-0420-11	PILOT LAMP (14V 40mA)	3
1-11	382-3976-00	BUTTON (TA)	1	31	345-3814-75	LAMP CAP	2
1-12	382-3979-00	BUTTON (MUTE/EXM)	1	32	017-0414-00	PILOT LAMP (8V 40mA)	2
1-13	382-3977-00	BUTTON (GEO)	1	33	311-1652-00	LOWER CASE	1
1-14	382-3978-00	BUTTON (T-M)	1	34	039-0181-01	MAIN PWB	1
1-15	382-3980-00	BUTTON (ON)	1	35	039-0561-00	CONNECTOR PWB	1
1-16	320-0485-84	DUSTPROOF COVER	1	36	309-0648-10	FRONT PLATE	1
1-17	341-1278-01	SHAFT	1	37	313-1577-0L	HEAT SINK	1
1-18	750-2530-04	SPRING	1	38	331-0413-0L	SHIELD PLATE	1 .
1-19	345-7675-00	CUSHON RUBBER (L)	1	39	331-0412-0L	CONNECTOR HOLDER	1
1-20	345-7676-00	CUSHON RUBBER (R)	1	40	331-1680-00	IC HOLDER	1
1-21	335-4951-00	ILLUMI PLATE (L)	1	41	092-0668-00	ANT HOLDER	1
1-22	335-4952-00	ILLUMI PLATE (R)	1	42	331-1679-00	BACK PLATE	1
2	714-3012-81	MACHINE SCREW	1	43	313-1628-00	HEAT SINK	1
3	286-8497-02	SETPLATE (PU-9983A)	1	44	716-1728-00	REAR BOLT	1
	286-8497-03	SETPLATE (PU-9983B)	1	45	345-4847-01	STOPPER	1
4	347-4001-0L	INSULATOR	1	46	331-1677-00	SIDE COVER (R)	1
5	347-2022-00	SHADE	1	47	331-1678-00	SIDE COVER (L)	1
6	353-0359-00	SHADE	2	48	335-4708-0L	SPACER	₹ 1
7	335-4513-01	SPACER	1	49	331-0410-10	MECH.BRACKET	1
8	345-7495-0L	INSULATOR	1	50	930-0722-86	TAPE MECHANISM	1
9	013-3978-01	SWITCH	17	51	335-4358-00	BUTTON SPACER	2
10	013-3849-00	SWITCH (ON)	1	52	382-3950-00	BUTTON (FF)	1
11	001-0207-00	DIODE	1	53	382-3951-00	BUTTON (REW)	1
12	076-0481-00	PLUG	1	54	382-3949-00	BUTTON (EJECT)	1
13	074-1058-00	OUTLET SOCKET	1	55	310-1582-00	UPPER CASE	1
14	880-2076A	TUNER PACK	1	56	716-0778-00	SCREW	5
15	347-3977-0L	LABEL	1	57	074-0930-13	OUTLET SOCKET	1
16	076-0390-04	 	2	58	714-3005-81	MACHINE SCREW	4
17	076-0324-04	 	1				-

PARTS LIST

Note)Several different parts of the same reference number are alternative parts. One of those parts is used in the set.

SWITCH PWB SECTION

REF	No.	+	DESCRIPTION	RE	F No.	PART No.	DESCRIPTION	RE	F No.	PART No.	DESCRIPTION	
C	1	178-1042-78	0.1uF	R	1	117-1031-10	1/10W 10kohm	s		013-3978-01		
C	2	178-1042-78	0.1uF	R	2	117-1041-10	1/10W 100kchm	s		013-3978-01	•	
D	6	001-0525-00	IMN10	R	3	117-1031-10	1/10W 10kohm	S		013-3978-01		
D	7	001-0525-00	IMN10	s		013-3978-01		s		013-3978-01		
D	100	001-0207-00	TLR124	s	2	013-3978-01		s		013-3978-01		
IC	1	051-6001-01	uPD16431AGC-7ET	s		013-3978-01		s		013-3978-01		:
PL	100	017-0414-00	8V 70mA	s		013-3978-01		s		013-3978-01		i
PL		017-0414-00		s		013-3978-01		s				
PL		017-0420-11		s	-	013-3978-01		s		013-3978-01		
		017-0420-11		s	_	013-3978-01		1-		013-3978-01		ı
		017-0420-11		s		013-3978-01		S	20	013-3849-00		

C 424 183-4753-62 50V4.7uF													
Color	r=-	DEE No. DART No. DECORPOTION											
C 101 178-2232-78 0.022uF C 434 183-4753-51 35V4.7uF D 507 001-073-49 MA40922H C 106 178-4722-78 17900pF C 436 183-1063-31 16V10uF D 511 001-0466-00 55688B C 108 183-4753-51 35V4.7uF C 438 183-1063-31 16V10uF D 511 001-0466-00 55688B C 108 183-4753-51 35V4.7uF C 438 178-3922-78 30500pF D 515 001-0363-39 HZ57A1L D 518 001-0377-39 MA4075L D 518 001-0377-39 MA40652M D 902 001-0466-00 55688B D 102 168-258-62 50V2.2uF C 440 183-1063-51 35V10uF D 902 001-0466-00 55688B D 903 001-0466-00 55688B 903 001-0466-00 55688B 903 001-0466-00 55688B	h				·! ——				R	EF No	. PART No. DESCRIPTION		
0 0 19-9-7-22-78 1000pf C 438 183-1083-31 16/10uF D 510 001-0466-00 556888 C 107 1738-1732-78 1000pf C 437 183-4753-51 35/47-74 C 437 183-4753-51 35/47-74 C 438 173-392-78 3003uF D 513 001-0466-00 556888 D 513 001-0466-00 556	3				1 1			1	11.	507	001-0377-45 MA4082H		
Color			178-4722-78	4700pF			1		D	510	001-0188-01 1S1885A		
10 10 103-47-93-51 359-47-17 C 439 178-3922-78 3900pF D 515 001-0373-40 MA40751 D 516 001-0373-40 MA40751 D 516 001-0373-49 MA40751 D 516 001-0377-35 MA40751 D 516 001-0373-49 MA40751 D 516 001-0373-49 MA40751 D 516 001-0377-35 MA40751 D 516 001-0373-49 MA40751 D 516 001-0377-35 MA40751 D									1 1	511	001-0466-00 S5688B		
C 101 178-1532-78 0.015UF C 499 178-3332-78 0.03UF C 111 178-1532-78 0.015UF C 440 183-1635-61 301 178-332-78 0.03UF C 441 178-6822-78 3010UF C 201 302-253-62 50V2-2UF C 441 178-6822-78 3010UF C 201 302-253-62 50V2-2UF C 442 178-6822-78 3010UF C 201 302-253-62 50V2-2UF C 244 178-6822-78 3010UF C 201 302-253-62 50V2-2UF C 245 278-682-78 3010UF C 201 302-253-62 50V2-2UF C 202 178-1042-78 0.1UF C 247 183-1635-31 35V4-7UF C 202 178-1042-78 0.1UF C 247 183-1753-62 50V4-7UF C 202 178-1042-78 0.1UF C 247 183-4753-62 50V4-7UF C 202 178-1011-00 100pF CH C 245 183-4753-62 50V4-7UF C 202 278-1011-00 100pF CH C 245 183-4753-62 50V4-7UF C 207 178-1011-00 100pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-2011-00 22pF CH C 245 178-6812-78 680pF C 207 178-202-78 1000pF C 245 178-6812-78 680pF C 245 178-6825-78 245 245 245 245 245 245 245 245 245 2									11	513	001-0377-40 MA4075L		
C 111 178-1532-78 0.015UF C 440 183-1683-81 35V1 OUF D 900 0.01-0466-00 358688 C 111 178-3303-78 0.033UF C 441 178-5822-78 6800pF D 900 0.01-0466-00 558688 D 178-1058-81 50V1 UIF C 441 178-1042-78 0.1 UF D 178-1042-78 0.1 U					11				1 1	515	001-0503-36 HZS7A1L		
C 113 178-3283-2650V2_2UF					1 1		178-3332-78	0.033uF	1 1		001-0377-35 MA4062M		
C 113 178-3332-78 0.033UF C 442 178-1042-78 0.1UF 10 0.02-1030-01 PD17006AGF-651 178-3332-78 0.039UF C 443 183-1063-31 16V10UF C 202 0.051-1375-35 C 202 178-1042-78 0.1UF C 447 183-4753-63 S0V4.7UF C 202 0.051-1375-35 C 202 178-1042-78 0.1UF C 447 183-4753-63 S0V4.7UF C 203 178-1042-78 0.1UF C 448 183-4753-62 S0V4.7UF C 203 178-1042-78 0.1UF C 449 183-4753-62 S0V4.7UF C 202 2051-1375-65 C 2051-1375-6						440	183-1063-51	35V10uF	1 1		001-0466-00 S5688B		
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C 206 176-1011-00 100pF CH C 450 183-4753-62 50V4.7uF IC 403 511-5000-00 LC7538NM C 208 176-1011-00 100pF CH C 451 183-4753-62 50V4.7uF IC 403 511-5000-00 LC7538NM C 209 176-2201-00 22pF CH C 453 178-6812-76 680pF IC 406 651-202-75 INJM2058D C 210 176-2201-00 22pF CH C 453 178-6812-76 680pF IC 406 651-202-75 INJM2058D C 211 178-1022-78 1000pF C 455 178-6812-76 680pF IC 406 651-202-00 Al13151 IC 408 Al13151 I									11 -		051-0301-01 uPC1228HA		
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C 210 176-2201-00/22pF CH	C								1 1		051-5000-00 LC7538NM		
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C 210 176-2201-00/22pF CH	С	209	176-2201-00	22pF CH		453	178-6812-78	680nF	1 1		051-0287-51 NJM2058D		
C 211 178-1022-78 1000pF C 455 178-6812-78 680pF L 101 010-2230-00 0.15uH C 213 178-1022-78 1000pF C 461 172-1041-11 0.1uF L 301 010-2030-04 C 301 178-3312-78 330pF C 462 172-1041-11 0.1uF L 503 010-2230-50 47uH C 302 183-2253-82 50V2 2uF C 463 172-1041-11 0.1uF L 503 010-2230-50 47uH C 303 183-4763-116.3V47uF C 464 172-1041-11 0.1uF L 503 010-2230-19 5.6uH C 304 178-5612-78 580pF C 465 172-1041-11 0.1uF L 503 010-2230-19 5.6uH C 305 176-8201-00 82pF CH C 466 172-1041-11 0.1uF L 503 010-2230-19 5.6uH C 306 176-4701-00 47pF CH C 466 172-1041-11 0.1uF G 102 125-2004-03 RN1403 C 307 178-1042-78 0.1uF C 468 172-1041-11 0.1uF G 102 125-2004-03 RN1403 C 307 178-1042-78 0.1uF C 469 183-1063-31 16V10uF G 104 102-2712-51 2502712G.L C 401 173-6812-10 680pF C 470 172-1041-11 0.1uF G 102-2712-51 2502712G.L C 402 183-1053-62 50V1uF C 470 172-1041-11 0.1uF G 102-2712-51 2502712G.L C 404 178-2732-78 0.027uF C 470 172-1041-11 0.1uF G 102-2712-51 2502712G.L C 405 183-1073-12 6.3V100uF C 471 183-1073-21 10V100uF G 105 102-2712-51 250204-03 RN1403 C 405 173-6812-10 680pF C 474 183-4753-51 35V4-7uF G 109 125-2004-03 RN1403 C 406 183-1053-61 50V1uF C 475 178-1042-78 0.1uF G 203 125-2004-03 RN1403 C 407 183-1053-61 50V1uF C 504 184-2273-278 0.01uF G 203 125-2004-03 RN1403 C 408 178-2732-78 0.027uF C 502 178-1032-78 0.01uF G 203 125-2004-03 RN1403 C 411 183-4753-62 50V4-7uF C 501 183-4763-21 10V40uF G 204 102-2712-00 2502712 C 422 183-4753-62 50V4-7uF C 501 183-4763-21 10V40uF G 203 125-2004-03 RN1403 C 425 178-3032-78 0.00pF D 203 001-0330-00 158119 G 501 101-162-50 25801162 C 426 178-3032-78 0.03uF G 200-00 0.085119 G 501 0.01-162-50 0.01-162-50 0.01-16	C	210	176-2201-00	22pF CH		454	178-6812-78	680nF	! !		051-2002-00 MA13151		
C 212 178-1022-78 1000pF C 460 183-1063-31 184 100pF C 461 172-1041-11 0.1uF L 501 010-2293-50 47UH L 502 009-0470-63 MIN 47UH MIN	C					455	178-6812-78	680nF	11		010 3330 000 15:44		
C 213 178-1022-78 1000pF						460	183-1063-31	16V10uF	11		010-2230-000.15UH		
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C 302 183-2253-6250V2_2UF	C	301	178-3312-78	330pF					1 1				
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C 401 173-6812-10 (680pF C 469 183-1053-62 50V1uF C 470 172-1041-11 (0.1uF Q 106 102-3624-00 28C3624 Q 107	C		178-1042-78	0.1uF		468	172-1041-11	0.1uF					
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1/3-681/2-110 08/0pf C									Q	108	125-2004-03 RN1403		
C 406 183-1053-62 50V1uF C 475 178-1042-78 0.1uF Q 203 125-2004-06 RN1406 Q 204 102-2712-00 2SC2712 Q 403 103-1306-00 2SD1306 Q 204 103-1306-00 2SD1306 Q 204 103-1306-00 2SD1306 Q 204 Q 405 Q	C	1				474	183-4753-51	35V4.7uF	Q		125-2004-03 RN1403		
183-10/3-12/6-3V100UF						475	178-1042-78	0.1uF	Q	203	125-2004-06 RN1406		
C 409 183-1063-51 35V10uF C 502 178-1032-78 0.01uF C 404 103-1306-00 25D1306 C 411 183-1053-61 50V1uF C 504 184-2273-22 10V47uF C 415 183-4753-62 50V4.7uF C 505 183-1053-61 50V1uF C 505 183-4753-62 50V4.7uF C 510 183-4763-31 16V47uF C 501 100-1162-00 25D1306 C 417 183-4753-62 50V4.7uF C 512 042-0200-00 10V47uF C 501 100-1162-00 25C3420 C 418 183-4753-51 35V4.7uF C 551 183-1053-61 50V1uF C 503 102-3420-00 25C3420 C 420 183-1073-21 10V100uF C CT201 050-0077-02 10kohmx4 C 505 102-3420-00 25C3420 C 25C2712 183-1063-51 35V10uF D 101 001-0366-00 LTZ-MR15 C 424 183-4753-62 50V4.7uF D 102 001-0330-00 15S119 C 426 178-3332-78 0.033uF D 204 001-0330-00 15S119 C 426 178-3332-78 0.033uF D 204 001-0330-00 15S119 C 426 178-3332-78 0.033uF D 204 001-0330-00 15S119 C 427 183-1063-51 35V10uF D 502 001-0330-00 15S119 C 428 178-6822-78 6800pF D 501 001-0330-00 15S119 C 429 178-1042-78 0.1uF D 502 001-0330-00 15S119 C 438 178-6822-78 6800pF D 503 001-0330-00 15S119 C 515 103-1588-00 25D1858 C 432 183-1063-51 35V10uF D 502 001-0330-00 15S119 C 515 103-158-00 25D1858 C 432 183-1063-51 35V10uF D 502 001-0330-00 15S119 C 515 103-1585-00 25D1858 C 432 183-1063-51 35V10uF D 504 001-0377-48 MA4091H D 506 001-0330-00 15S119 C 515 103-1585-00 25D1858 C 515 103-15		!							Q	204	102-2712-00 2SC2712		
C 409 183-1063-51 35V10uF C 503 182-4763-22 10V47uF C 504 184-2273-22 10V42uF C 405 103-1306-00 2SD1306 C 415 183-4753-62 50V4.7uF C 508 182-1073-32 16V100uF C 509 183-4753-62 50V4.7uF C 510 183-4763-31 16V47uF C 511 183-4753-62 50V4.7uF C 512 042-0200-00 10V47uF C 513 183-4753-51 35V4.7uF C 551 183-1053-61 50V1uF C 551 183-1053-61 50V1uF C 510 183-4763-31 16V47uF C 510 183-4753-51 35V4.7uF C 551 183-1053-61 50V1uF C 551 183-1053-61 50V1uF C 503 102-3420-00 2SC3420									Q				
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C 419 183-1073-21 10V100uF										502	125-2004-02 RN1402		
C 420 184-2273-12 6.3V220uF	C	•			1 -					503	102-3420-00 2SC3420		
C 422 183-1063-51 35V10uF	C									504	101-1398-00 2SB1398		
C 424 183-4753-62 50V4.7uF	C	1		1						505	102-2712-00 2SC2712		
C 425 178-3922-78 3900pF	C				1					508	102-3420-00 2SC3420		
C 426 178-3332-78 0.033uF D 203 001-0330-00 188119 D 204 001-0330-00 188119 D 205 20	C				ı				1	509	191-0624-0L 2SB624		
C 427 183-1063-51 35V10uF D 205 001-0361-10 1SS198 Q 513 125-2004-02 RN1402 Q 514 191-1068-0L 2SB1068-L,L,U-T Q 515 103-1858-00 2SD1858 Q 901 178-1042-78 0.1uF D 502 001-0330-00 1SS119 Q 515 103-1858-00 2SD1858 Q 901 125-2004-03 RN1403 Q 516 103-1858-00 2SD1858 Q 901 125-2004-03 RN1403 Q 901 125-2004-03 RN1403 Q 517 103-1858-00 2SD1858 Q 901 125-2004-03 RN1403 Q 901 12	C				į.					510	100-1162-50 2SA1162Y.G		
C 428 178-6822-78 6800pF D 501 001-0330-00 1SS119 Q 514 191-1068-0L 2SB1068-L,L,U-T Q 515 103-1858-00 2SD1858 Q 901 125-2004-03 RN1403 C 432 183-1063-51 35V10uF D 506 001-0330-00 1SS119 D 507 001-0330-00	C		193-1062 51	7.033UF	1								
C 429 178-1042-78 0.1uF D 502 001-0330-00 1SS119 Q 514 191-1068-0L 2SB1068-L,L,U-T C 430 178-1042-78 0.1uF D 502 001-0330-00 1SS119 Q 515 103-1858-00 2SD1858 D 503 001-0361-10 1SS198 D 504 001-0377-48 MA4091H D 506 001-0330-00 1SS119 R 101 117-1031-10 1/10W 10kohm R 102 117-1231-10 1/10W 12kohm R 102 1/10W 1	С	1			1								
C 430 178-1042-78 0.1uF	C	i			!				1	514	191-1068-0L 2SB1068-L,L,U-T		
C 432 183-1063-51 35V10uF D 504 001-0337-48 MA4091H D 506 001-0330-00 15S119 Q 901 125-2004-03 RN1403 R 101 117-1031-10 1/10W 10kohm R 102 117-1231-10 1/10W 12kohm	С		178-1042-78). IUF									
C 433 183-4753-51 35V4.7uF D 506 001-0330-00 1SS119 R 101 117-1031-10 1/10W 10kohm R 102 117-1231-10 1/10W 12kohm	С	1			1								
H 102 117-1231-10 1/10W 12kohm	С	i			1					101	117-1031-10 1/10W 10kohm		
				70 V T. 7 UI	<u>u</u>	auc	001-0330-00	199118	[H	102	117-1231-10 1/10W 12kohm		

REI	No.	PART No. DESCRIPTION	RE	F No.	PART No.	DESC	RIPTION	REF	No.	PART No.	DESCRIPTION
R	103	117-6821-10 1/10W 6.8kohm	R	422	111-2221-91	1/4WS	2.2kohm	R	501	117-1051-10	1/10W 1Mohm
R		117-1041-10 1/10W 100kohm	R	423	111-2221-91	1/4WS	2.2kohm	R	502	117-1041-10	1/10W 100kohm
R		117-1021-10 1/10W 1kohm	R	424	117-2221-10	1/10W	2.2kohm	R	503	117-1541-10	1/10W 150kohm
R		117-2231-10 1/10W 22kohm	R	425	117-1041-10	1/10W	100kohm	R	504	117-1831-10	1/10W 18kohm
R		117-3321-10 1/10W 3.3kohm	R		117-1041-10			R	505	117-1031-10	1/10W 10kohm
R		117-3321-10 1/10W 3.3kohm	R	427	117-1041-10	1/10W	100kohm	R	506	117-6821-10	1/10W 6.8kohm
R		117-3321-10 1/10W 3.3kohm	R	428	117-1041-10	1/10W	100kohm	R	507	117-1541-10	1/10W 150kohm
R		117-3321-10 1/10W 3.3kohm	R	429	117-1041-10	1/10W	100kohm	R	508	117-1241-10	1/10W 120kohm
R		117-5621-10 1/10W 5.6kohm	R	430	117-1041-10	1/10W	100kohm	R	509	117-3931-10	1/10W 39kohm
R		117-2221-10 1/10W 2.2kohm	R	431	117-1041-10	1/10W	100kohm	R	510	117-5131-10	1/10W 51kohm
R		117-1021-10 1/10W 1kohm	R	432	117-1041-10	1/10W	100kohm	R	511	117-8221-10	1/10W 8.2kohm
R		117-2221-10 1/10W 2.2kohm	R		117-2741-10	1	1	R	512	111-6811-81	1/2WS 680ohm
R		117-6821-10 1/10W 6.8kohm	R	434	117-2741-10	1/10W	270kohm	R	513	111-4711-91	1/4WS 470ohm
R		117-1021-10 1/10W 1kohm	R	435	117-2741-10	1/10W	270kohm	R	515	117-3321-10	1/10W 3.3kohm
R		117-4711-10 1/10W 470ohm	R	436	117-2741-10	1/10W	270kohm	R	516	111-1021-91	1/4WS 1kohm
R		117-4721-10 1/10W 4.7kohm	R	441	117-3311-10	1/10W	330ohm	R	517	111-2211-91	1/4WS 220ohm
R		117-1031-10 1/10W 10kohm	R		117-3311-10			R	518	111-1031-91	1/4WS 10kohm
R		117-1031-10 1/10W 10kohm	R	443	117-3311-10	1/10W	330ohm	R	519	111-3311-81	1/2WS 330ohm
R		117-3321-10 1/10W 3.3kohm	R	444	117-3311-10	1/10W	330ohm	R	520	117-6821-10	1/10W 6.8kohm
R		117-1031-10 1/10W 10kohm	R	445	117-1021-10	1/10W	1kohm	R	521	117-1031-10	1/10W 10kohm
R		117-1041-10 1/10W 100kohm	R	446	117-1021-10	1/10W	1kohm	R	526	111-5611-91	1/4WS 560ohm
R		117-1011-10 1/10W 100ohm	R	447	117-1531-10	1/10W	15kohm	R	528	117-1031-10	1/10W 10kohm
R		117-1021-10 1/10W 1kohm	R	448	117-1531-10	1/10W	15kohm	R	529		1/10W 10kohm
R		117-5621-10 1/10W 5.6kohm	R	449	117-1531-10	1/10W	15kohm	R	530	111-4721-91	1/4WS 4.7kohm
R		117-1051-10 1/10W 1Mohm	R	450	117-1531-10	1/10W	15kohm	R	531	111-3321-91	1/4WS 3.3kohm
R	301	117-2221-10 1/10W 2.2kohm	R	451	117-1031-10	1/10W	10kohm	R	532	117-1031-10	1/10W 10kohm
R	401	117-3331-10 1/10W 33kohm	R	452	117-1031-10	1/10W	10kohm	R	533	117-1031-10	1/10W 10kohm
R	402	117-8201-10 1/10W 82ohm	R	453	117-1031-10	1/10W	10kohm	R	534		1/4WS 1kohm
R	403	117-4721-10 1/10W 4.7kohm	R	454	117-1031-10	1/10W	10kohm	R	535	111-1031-91	1/4WS 10kohm
R	404	117-1241-10 1/10W 120kohm	R	455	117-2291-10	1/10W	2.20hm	R	536	114-2711-11	1W 270ohm
R	405	117-3331-10 1/10W 33kohm	R	456	117-2291-10	1/10W	2.2ohm	R	540	111-8211-81	1/2WS 820ohm
R	406	117-8201-10 1/10W 82ohm	R	457	117-2291-10	1/10W	2.20hm	R	549	111-1031-91	1/4WS 10kohm
R	407	117-4721-10 1/10W 4.7kohm	R	458	117-2291-10	1/10W	2.20hm	R	905	117-6821-10	1/10W 6.8kohm
R	408	117-1241-10 1/10W 120kohm	R	459	117-2291-10	1/10W	2.20hm	R	907	117-6821-10	1/10W 6.8kohm
R	409	111-2201-91 1/4WS 22ohm	R	460	117-2291-10	1/10W	2.20hm	SUF	2101	060-0122-10	DSP-201M-S00B
R	413	117-6821-10 1/10W 6.8kohm	R	461	117-2291-10	1/10W	2.2ohm	T	501	009-0666-0L	
R		117-6821-10 1/10W 6.8kohm	R	462	117-2291-10	1/10W	2.2ohm	VR	101	012-4431-13	470kohm
R		117-4331-10 1/10W 43kohm	R	463	117-3321-10	1/10W	3.3kohm	VR	102	012-4431-06	10kohm
R	420	117-2231-10 1/10W 22kohm	R	464	117-3921-10	1/10W	3.9kohm	Х	201	061-1064-00	4.5MHz
R	421	117-2231-10 1/10W 22kohm	R	466	117-1031-10	1/10W	10kohm	Х	301	061-3013-00	4.33MHz

CONNECTOR PWB SECTION

C 550 178-1042-78 0.1uF F 501 060-0057-56 10A R 551 117-3311-10 1/10W 3300hm R 552 117-3911-10 1/10W 3900hm	REF	No.	PART No.	DESCRIPTION
R 551 117-3311-10 1/10W 330ohm				
	F	501	060-0057-56	10A
B 552 117-3911-101/10W 3900hm				
11 332 117 0311 10 171017 03001111	R	552	117-3911-10	1/10W 390ohm

			DESCRIPTION
R	553	117-5611-10	1/10W 560ohm 1/10W 820ohm 1/10W 1.2kohm
R	554	117-8211-10	1/10W 820ohm
R	555	117-1221-10	1/10W 1.2kohm
R	556	117-2021-10	1/10W 2kohm

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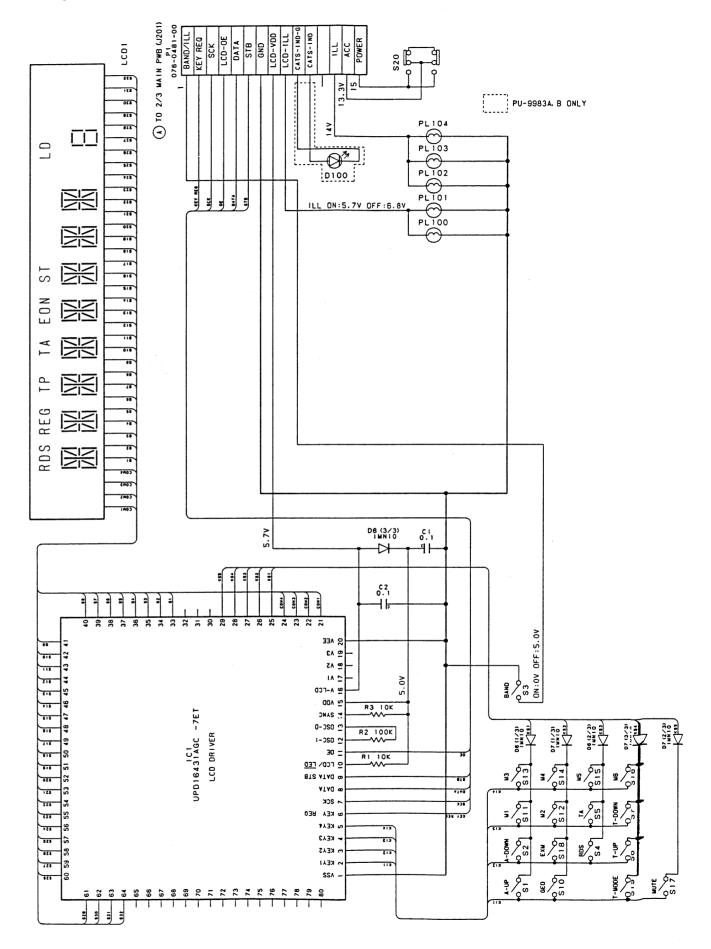
			DESCRIPTION
R	557	117-4721-10	1/10W 4.7kohm
R	558	117-6821-10	1/10W 6.8kohm
R	559	117-8221-10	1/10W 8.2kohm

PU-9970A

■ CIRCUIT DIAGRAM 1/3

SWITCH PWB SECTION

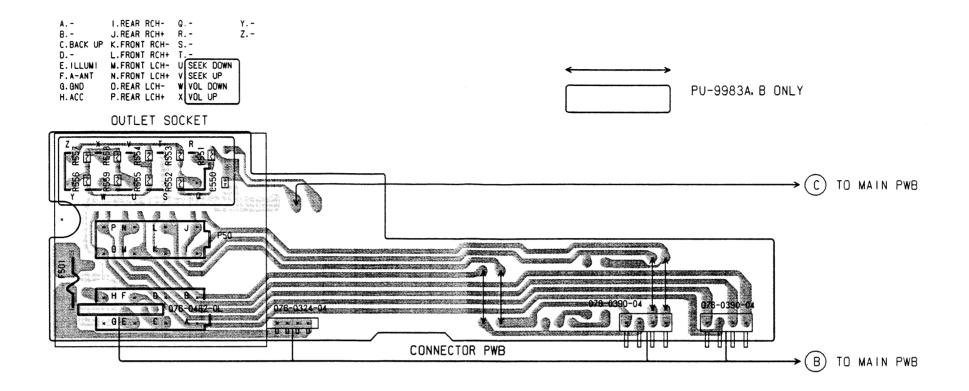
PU-9970A

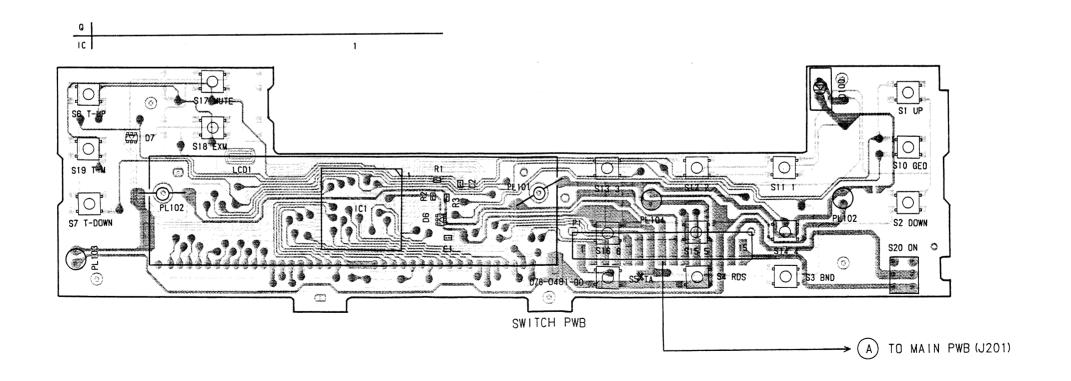


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■ PRINTED WIRING BOARD 1/2

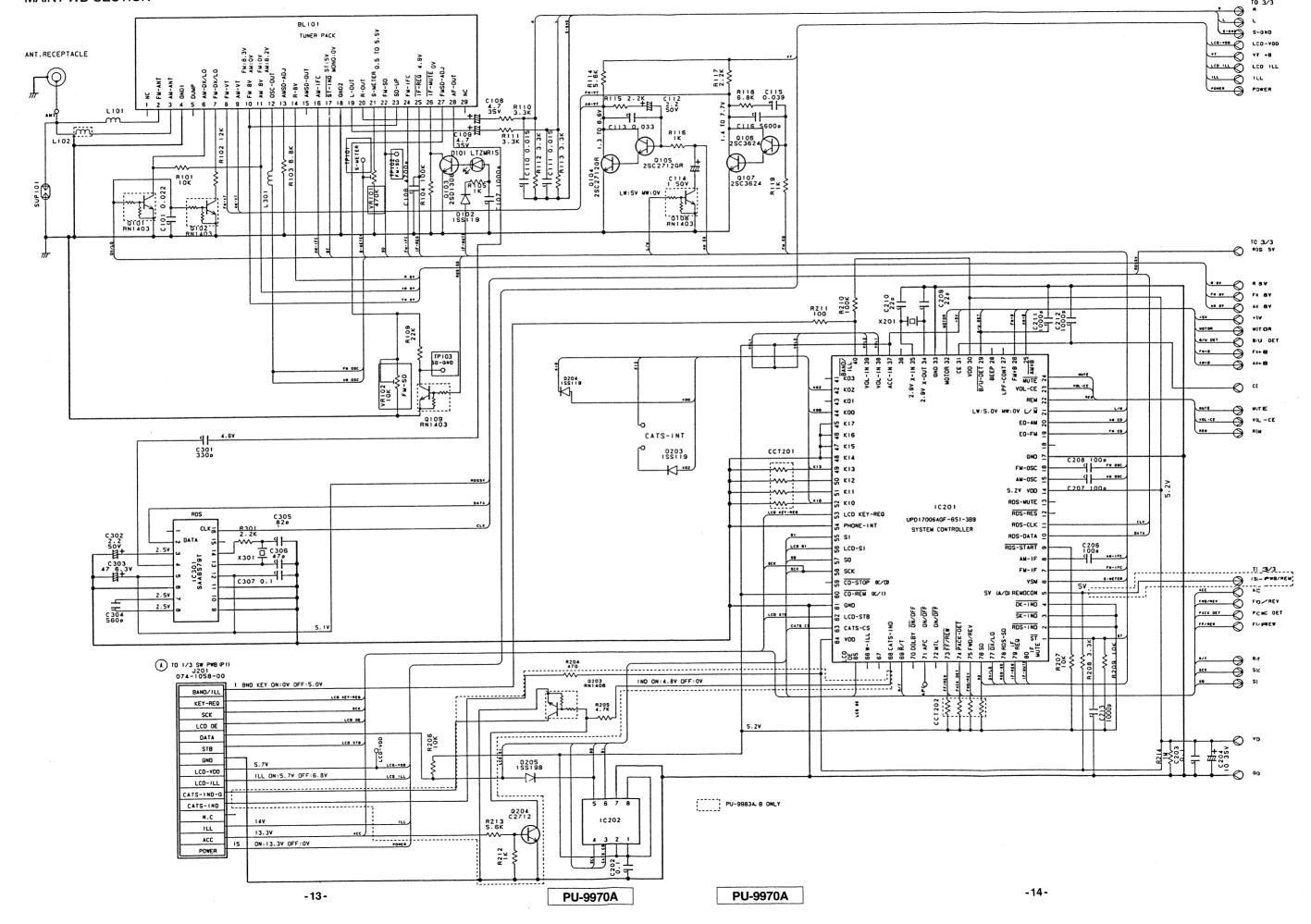
CONNECTOR PWB/SWITCH PWB SECTION



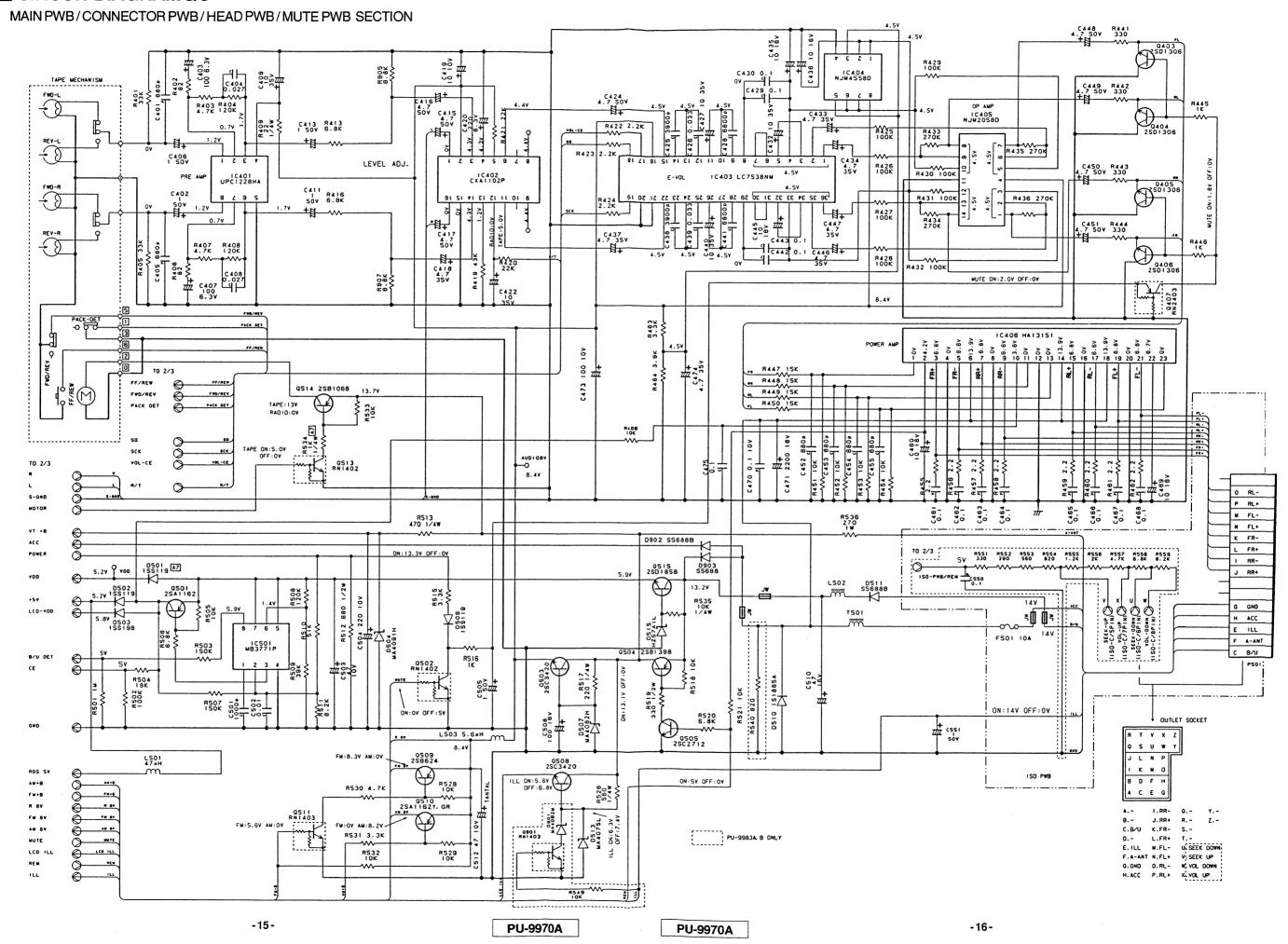


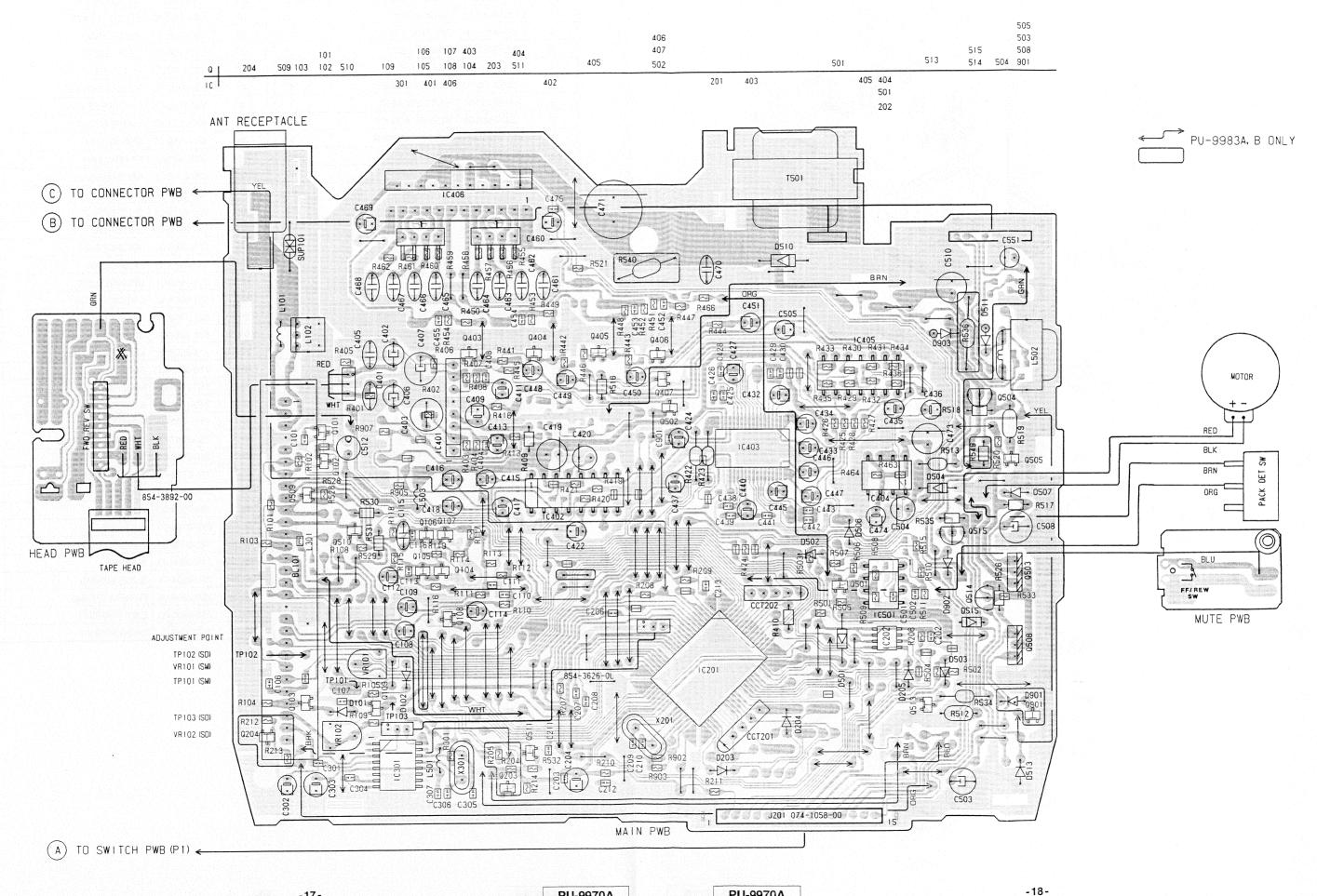
■ CIRCUIT DIAGRAM 2/3

MAIN PWB SECTION



■ CIRCUIT DIAGRAM 3/3

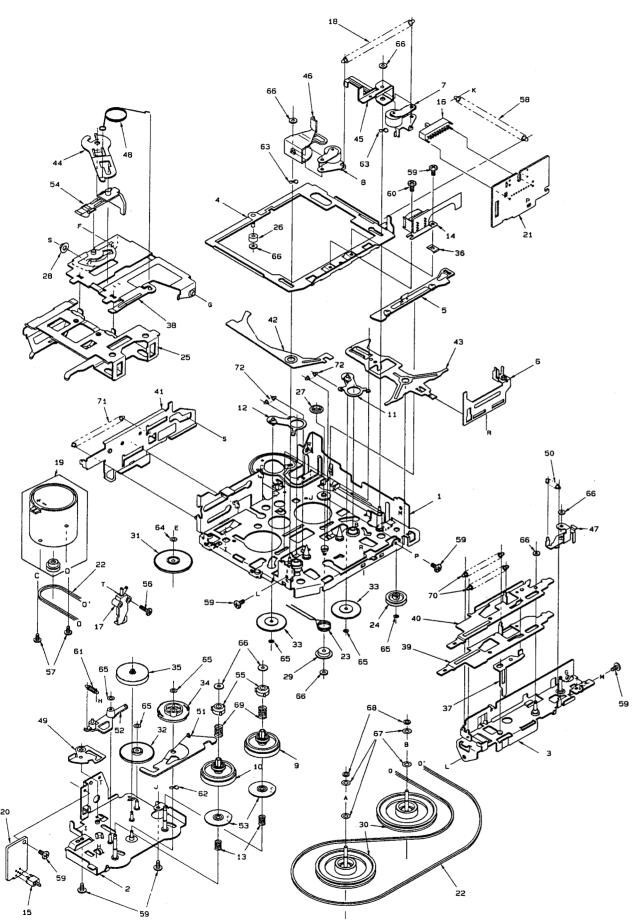




PU-9970A

■ EXPLODED VIEW · PARTS LIST

TAPE MECHANISM SECTION: 930-0722-86



		, 		,			
NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	960-4180-05	DECK ASS'Y	1	37	630-2488-02	SELECT PLATE	1
2	960-4181-06	BOTTOM ASS'Y	1	38	630-2494-07	GUIDE ARM	1
3	960-4182-03	FRAME ASS'Y	1	39	630-2496-03	REW LEVER	1
4	960-4184-03	HEAD ASS'Y	1	40	630-2497-03	FF LEVER	1
5	960-4186-02	FF-REW-P ASS'Y	1	41	630-2498-32	EJECT LEVER-C	1
6	960-4187-01	HEAD-SW ASS'Y	1	42	630-2499-01	CHANGE LEVER	1
7	960-4188-03	ROLLER ASS'Y F	1	43	630-2501-02	CHANGE PLATE	1
8	960-4189-03	ROLLER ASS'Y R	1	44	630-2502-05	SWING ARM	1
9	960-4190-08	REEL ASS'Y F	1	45	630-2505-02	FF-REW LINK	1
10	960-4191-08	REEL ASS'Y R	1	46	630-2506-05	RELEASE LINK	1
11	960-4192-02	IDOLER ASS'Y F	1	47	630-2507-04	LOCK LINK	1
12	960-4193-02	IDOLER ASS'Y R	1	48	750-2910-03	SLOT SPRING	1
13	750-2919-03	CHECK SPRING-R	2	49	630-2529-01	MUTE PLATE	1
14	011-0313-15	HEAD	1	50	750-2909-04	LOCK SPRING	1
15	013-3906-00	SWITCH (MUTE)	1	51	631-1958-05	CHECK LINK	1
16	013-3922-00	SWITCH (FWD/REV)	1	52	631-1959-01	CHANGE LINK	1
17	013-3924-00	SWITCH (PACK DET)	1	53	631-1961-03	CHECK PLATE	2
18	750-2912-01	PINTCH SPRING	1	54	631-1963-04	PACK STOPPER	1
19	SMA-141-100	MOTOR ASS'Y	1	55	631-1967-00	SLIDE BUSH	2
20	099-9126-00	MUTE PWB	1	56	714-2008-81	MACHINE SCREW	1
21	099-9669-00	HEAD PWB	1	57	716-0484-02	SCREW	2
22	602-0115-00	BELT	1	58	750-2908-02	HEAD SPRING	1
23	750-2911-01	HOLDING SPRING	1	59	716-1471-00	S-TYTE 2-3	7
24	604-0042-01	TENSION PULLEY	1	60	716-1473-01	HEAD SCREW	1
25	606-0100-05	PACK GUIDE	1	61	750-2907-03	CHANGE-L-SPRING	1
26	610-0333-01	HEAD ROLLER A	1	62	745-0752-00	PLATE SPRING	1
27	610-0334-01	HEAD ROLLER B	1	63	745-0756-00	SPRING WASHER	2
28	610-0335-02	EJECT ROLLER	1	64	746-0624-00	WASHER	1
29	610-0336-01	SP ROLLER	1	65	746-0724-00	WASHER	6
30	611-0094-01	FLYWHEEL	2	66	746-0768-00	WASHER	8
31	613-0272-10	GEAR A	1	67	746-0839-00	CAPSTAIN WASHER	4
32	613-0273-02	GEAR B	1	68	746-0869-00	WASHER	2
33	613-0274-02	IDLER GEAR	2	69	750-2564-01	SLIDE SPRING	2
34	613-0275-03	CHANGE GEAR	1	70	750-2904-02	FF-REW SPRING	2
35	613-0277-02	CHACK GEAR	1	71	750-2905-02	EJECT SPRING	1
36	630-1279-00	SPACER	1	72	750-2906-00	IDLER SPRING	2
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